# PROJECT DESCRIPTION I. General This portion of the project involves the installation of a new fire station pre-empt flashing traffic control signal with street lighting in conjunction with new roadway construction at the intersection of new Mid-field Cargo Access road and the Air-craft Rescue and Fire fighting Center Access Drive in Anne Arundel County. The Mid-field Cargo Access Road is assumed to run in a east-west direction. II. Intersection Operation

This intersection is proposed to run in a flashing operation with Mid—field Cargo Access Road receiving the right—of—way during normal operation. The Aircraft Rescue and Fire Fighting Access Road approach shall be pre—empted by an emergency vehicles via opticom detection.

A Econolite ASC II eight (8) phase, full traffic actuated controller with intersection control monitor, battery back—up, housed in a pole mounted (size 5) cabinet shall be installed at this intersection.

### III. Special Notes

1.) The following contact persons for District #5 are as follows:

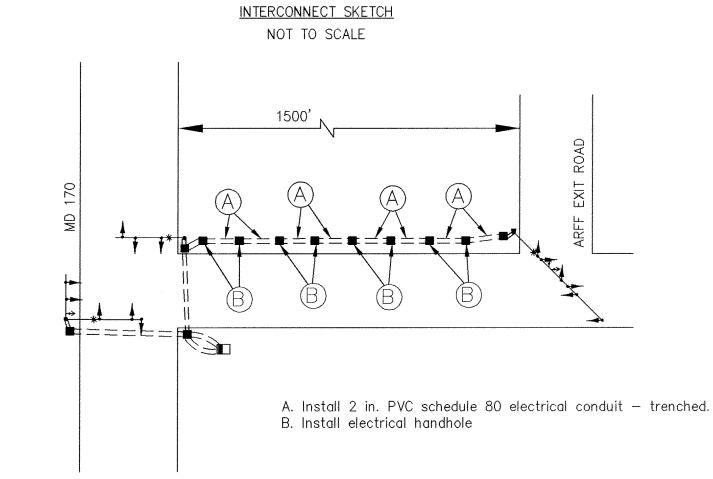
Mr. Paul Armstrong	Mr. Lawrence Elliott
District Engineer	Asst. District Engineer — Traffic
Phone # (410) 841—5450	Phone # (410) 841—5450
Mr. Chuck George	Mr. John Mays
Asst. District Engineer —	Asst. District Engineer —
Maintenance	Utility
Phone # (410) 841—5450	Phone # (410) 841—5450

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone # (410) 787—7630

- 2.) Upon completion of this project, the contractor shall contact Mr. Robert Snyder of the MD—SHA at (410) 787—7635 to arrange for the telephone line installation. The contractor shall provide Mr. Snyder with the nearest street address, zip code and phone number.
- 3.) The contractor shall deliver the traffic signal controller and cabinet to the:

Maryland SHA Signal Maintenance Shop 7491 Connelley Drive Hanover, Maryland 21076

Controllers and cabinets shall be delivered at least 30 calender days prior to installation for wiring and rigging. Contact Mr Ed Rodenhizer at (410) 787—7650 at least 72 hours prior to delivery.



		dajani da sanga di pinajan kanang kating	-			
TRAFFIC	SIGNAL QUAN			TO BE FURNISH SECTION	AND INSTALLED BY THE CONTRACTOR.  DESCRIPTION	
		4	EA	814	Furnish and install 12 in. /8 in. 1 way 3 section (R,Y,Y) signal head — mast arm mount	
		2	EA	814	Furnish and install 12" one—way 3—section (R,Y,Y) optically programmed signal head — mast arm mount	
		1	EA	816	Furnish and install Econolite ASCII (size5) mounted	

hour	LA		014	or	one—way 3—section (Fotically programmed signeral — mast arm mount
- Pro-	EA		816	Ec (s	rnish and install conolite ASCII ize5) mounted ontroller & cabinet.
18	SF		813	she	rnish and install eet aluminum signs nsisting of
		2		EA	W11-8 (36"x36")
		2	,	EA	W11-8(1) (72"x36")
		2		EA	W11-1(3) (36"x36")
		1		EA	W11-1(2) (36"x36")

		window		EA	$WII - I(2) (36 \times 36)$	
		4		EA	W11-1B (36"x36")	
		3		EA	M6-2 (21"x15")	
		2		EA	D3-2 (VAR"x16")	
		1		EA	R1-2 (36"x36"x36")	
		1		EA	Guide Shield Assembly (30"x51")	
		1		EA	Guide Shield Assembly (48"x75")	
1	CY		205	Test	Pit Excavation	
42	LF		xxx	prefo	. white permanent ormed pavement ing tape.	

Furnish and install 2" schedule 80 rigid PVC

4.65	CY	801	Furnish and install concrete for signal foundation.
1	EA	804	Furnish and install ground rod — 3/4 in. diameter x 10 ft.

1600 LF

2000

50

160

1 EA

			conduit-trenched.
**	EA	806	Furnish and install 250 Watt high pressure sodium lamp and luminaire.
Antonomy	EA	807	Furnish and install control and distribution equipment.

20	L	810	Furnish and install No. 6 AWG stranded bare copper ground wire.
100	LF	810	Furnish and install electrical cable 1— conductor No. 4 AWG— THHN/THWN.

100	LF	810	Furnish and install electrical cable—4 conductor (No. 20 AW
100	LF	810	Furnish and install electrical cable—5 conductor (No. 14 AW

LF	810	Furnish and install electrical cable—7 conductor (No. 14 AWG
L.F	810	Furnish and install 2- conductor—Tray cable

Land I	010	conductor—Tray cab (NO. 12 AWG)
EA	811	Furnish and install electrical handhole.
LF	812	Furnish and install wood sign supports 4 in. x 6 in.
EA	XXX	Furnish and install opticom detector ey
EA	SP/829	Furnish and install 2

SP/829	Furnish and install 27 ft. steel pole with a 70 ft. mast arm. (Note: Four—2 in. x 90 in. anchor bolts.)	
818	Furnish and install	

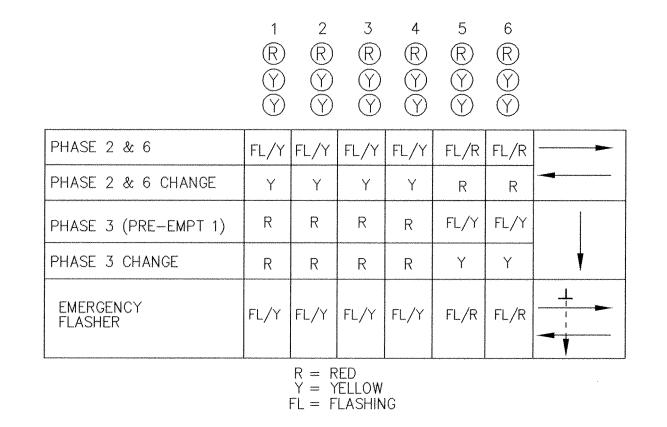
20 ft. lighting arm on signal structure.

	CONSULTING ENGINEERS COLUMBIA, MARYLAND	
<del>arrio, lo</del>		

REVISIONS

FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

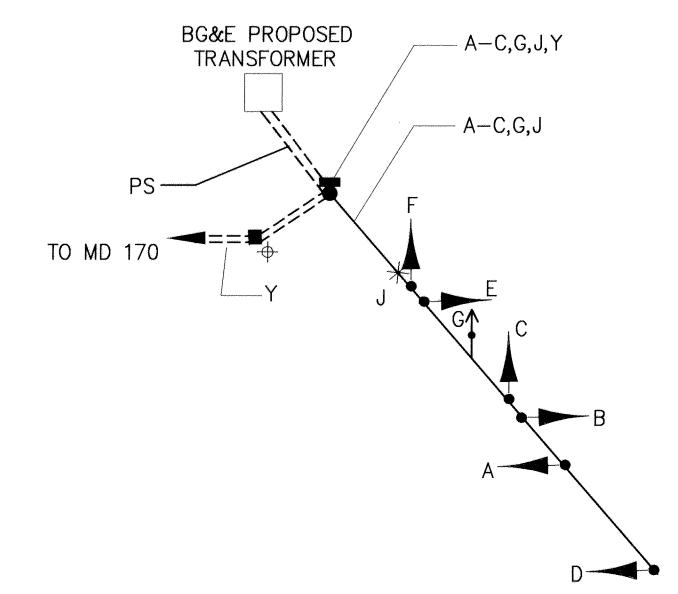
# PHASING SEQUENCE CHART



# WIRING DIAGRAM

CHECK BY: D PETERS

<u>1"=20'</u>



APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

## WIRING KEY

A-F- 5 CONDUCTOR ELECTRICAL CABLE (No. 14 AWG) For Vehicle Signal Head

G - 4 CONDUCTOR ELECTRICAL CABLE
(No. 20 AWG) For Opticom Eye

H - STRANDED BARE COPPER GROUND WIRE
(NO. 6 AWG)

J - 2 CONDUCTOR ELECTRICAL CABLE
 (No. 12 AWG) COPPER TYPE T/C
 Y - 7 CONDUCTOR ELECTRICAL CABLE
 (No. 14 AWG) FOR PRE-EMPTION

PS - POWER SERVICE

→ GROUND ROD

	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety
	TRAFFIC ENGINEERING DESIGN DIVISION
	MIDFIELD CARGO ACCESS ROAD @ ARFF EXIT ROA

MIDFIELD CARGO ACCESS ROAD @ ARFF EXIT ROAD

GENERAL INFORMATION SHEET

DATE 11 / / 97

DRAWN BY: R CICCHINI F.A.P. NO. PLAN SHEET NO.

PLAN SHEET NO.:

ANNE ARUNDEL 75 3837 C14.5